Assignment 3

In this assignment, you will be working with a dataset containing information on different species of flowers. The dataset is in a CSV file and contains the following columns:

- sepal length (cm)
- sepal width (cm)
- petal length (cm)
- petal width (cm)
- species

The task is to perform exploratory data analysis on the dataset. You should:

1. Load the dataset into a pandas DataFrame.
2. Display the first few rows of the DataFrame.
3. Check the data types of each column.
4. Check for any missing values and handle them appropriately.
5. Calculate summary statistics for each column.
6. Visualize the data using appropriate plots.
7. Conduct any additional analyses that you find interesting or necessary.

You should submit your code and any relevant outputs as a Python script along with your final results.

Due date: [Insert Date]

Grading criteria:

- Code quality and style (20 points)
- Data handling and analysis (20 points)
- Visualization (20 points)
- Final results and conclusions (20 points)
- Additional analyses (10 points)

Total: 100 points